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File: USPT

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US-PAT-NO: 4056512

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TITLE: Composition comprising phenolic resins and curing amounts triaza
phosphaadamantane compounds

DATE-ISSUED: November 1, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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US-CL-CURRENT: 525/503; 525/504

CLAIMS:

We claim:

1. A curable phenolic molding compound comprising an uncured phenolictype novolak resin and curing amount of a triaza phosphaadamantane compound having the formula: ##STR10## wherein Z is selected from ##STR11##
2. The molding compound of claim 1 wherein said triaza phosphaadamantane compound has the formula: ##STR12##
3. The molding compound of claim 1 wherein said uncured resin is a phenolaldehyde resin.
4. The molding compound of claim 3 wherein said phenol-aldehyde resin is a phenol-formaldehyde resin.
5. The molding compound of claim 1 wherein said cross-linking agent comprises a mixture of a formaldehyde releasing substance and a triaza phosphaadamantane compound of the formula: ##STR13## wherein Z is selected from ##STR14##
6. The molding compound of claim 5 wherein said formaldehyde releasing substance is hexamethylenetetramine.
7. The molding compound of claim 6 wherein the mixture of hexamethylenetetramine and triaza phosphaadamantane comprises a weight ratio of hexamethylenetetramine to triaza phosphaadamantane of about 1:3.
8. The molding compound of claim 1 wherein said cross-linking agent is present in the amount of from about 10 to about 20 parts by weight per 100 parts by weight of novolak resin.
9. The molding compound of claim 1 which additionally comprises a filler, a curing accelerator, a mold release agent, and reinforcing agents.
10. The molding compound of claim 1 when cured to an infusible state.
11. The molding compound of claim 8 when cured to an infusible state.